

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (previously presented) A topically-applied thermal device comprising a flexible plastic containment defining a single interior compartment and a single activatable thermochemical liquid composition encased therein, said flexible plastic containment comprising a multilayer film comprising:

- an outer polymeric barrier layer comprising an oxide coating;
- an inner polymeric sealant layer.

Claim 2 (original) The thermal device according to claim 1, further comprising an adhesive layer laminating together said outer polymeric barrier layer and said inner polymeric sealant layer.

Claim 3 (original) The thermal device according to claim 1, wherein said oxide coating is selected from the group consisting of aluminum oxide and silicone oxide.

Claim 4 (original) The thermal device according to claim 1, wherein said outer polymeric barrier layer comprises polyester.

Claim 5 (original) The thermal device according to claim 1, wherein said inner polymeric sealant layer comprises a blend of low density polyethylene (LDPE) and ethylvinyl acetate (EVA).

Claim 6 (previously presented) A topically-applied thermal device comprising a flexible plastic containment defining a single interior compartment and a single activatable thermochemical liquid composition encased therein, said flexible plastic containment comprising a multilayer film comprising:

- an outer polymeric barrier layer comprising polyester, said outer layer further comprising an oxide coating on the interior surface of said polyester layer;
- an inner polymeric sealant layer comprising a blend of low density polyethylene (LDPE) and ethylvinyl acetate (EVA); and
- an adhesive layer between said outer layer and said inner layer.

Claim 7 (original) The thermal device according to claim 6, wherein said oxide coating comprises aluminum oxide.

Claim 8 (original) The thermal device according to claim 6, wherein said thermochemical liquid composition comprises a supersaturated aqueous mixture comprising a chemical salt.

Claim 9 (original) The thermal device according to claim 8, wherein said thermochemical liquid composition comprises aqueous sodium acetate; aqueous sodium thiosulfate; or aqueous magnesium sulfate.

Claim 10 (original) The thermal device according to claim 6, wherein said adhesive layer comprises an ethyl acetate/aromatic polyisocyanate/methyl acetate blend.

Claim 11 (new) The thermal device according to claim 1 further comprising a flexible physical activator element within the single interior compartment that initiates crystallization when flexed.

Claim 12 (new) The thermal device according to claim 11 wherein the physical activator element is a flexible perforated metallic disc.

Claim 13 (new) The thermal device according to claim 11 wherein the physical activator element is a crystal-coated board.

Claim 14 (new) The thermal device according to claim 6 further comprising a flexible physical activator element within the single interior compartment operative to initiate an exothermic reaction when flexed.

Claim 15 (new) The thermal device according to claim 14 wherein the physical activator element is a flexible perforated metallic disc.

Claim 16 (new) The thermal device according to claim 14 wherein the physical activator element is a crystal-coated board.